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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/702,556	11/07/2003	Yoshiaki Noda	1259-0242P	8239	
2292 7	7590 03/16/2005	·	EXAM	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			OSELE, N	OSELE, MARK A	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
,			1734	1734	
			DATE MAIL ED. 02/16/200	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/702,556	NODA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mark A Osele	1734				
The MAILING DATE of this communication ap		_ 1				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.  after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin  earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS free, cause the application to become ABANDO	e timely filed  days will be considered timely.  om the mailing date of this communication.  NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under I	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.	•				
10)⊠ The drawing(s) filed on <u>07 November 2003</u> is/a	are: a)⊠ accepted or b)⊡ obje	ected to by the Examiner.				
Applicant may not request that any objection to the		* *				
Replacement drawing sheet(s) including the correct		•				
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	ce Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		(a)-(d) or (f).				
1. ☐ Certified copies of the priority document						
<ul><li>2. Certified copies of the priority document</li><li>3. Copies of the certified copies of the priority</li></ul>						
<ol> <li>Copies of the certified copies of the prio application from the International Bureau</li> </ol>		ived in this National Stage				
* See the attached detailed Office action for a list		ved.				
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Markey and A						
Attachment(s)	٠	(DTO 442)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summa Paper No(s)/Mail	Date				
<ul> <li>B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>11072003</u>.</li> </ul>	5) Notice of Informa 6) Other:	I Patent Application (PTO-152)				
Patent and Trademark Office						

U.S. Patent and Trademark Unio PTOL-326 (Rev. 1-04) Application/Control Number: 10/702,556

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## **DETAILED ACTION**

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## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Posey. The admitted prior art discloses that it is known to unwind a first polymer film from a first film roll to supply the first polymer film to a tentering device, unwind a second polymer film from a second film roll after unwinding of the first polymer film is completed, splicing the first and second polymer films, and unwinding the second polymer film from the second film roll after splicing to supply the second polymer film to the tentering device (Instant specification page 2, lines 16-30). The admitted prior art fails to show the splicing to occur by thermal melting of overlaid films.

Posey teaches that polymer films can be spliced for continuous feeding to a processing station by overlying the trailing end of the first film and the leading end of the second film and using an impulse heater (column 4, lines 39-42) to seal the webs together (column 2, lines 23-30). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the overlap heat sealing device of Posey in the method of the admitted prior art because Posey shows this splicing device to be quick, economical, and minimally disruptive (colum 1, lines 56-60).

3. Claims 2-8 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Posey as applied to claim 1 above, and further in view of Gatteschi. As shown in paragraph 2 above, the references as combined show the instantly claimed limitations except for forming a loop of the first polymer film in a reservoir.

Gatteschi shows a heat seal splicing device for polymer films wherein a reservoir, 7, is used to hold a loop of the first polymer film, A, so that film can be provided to the processing device continuously (column 2, lines 48-57) while the films are being spliced. It would have been obvious to one of ordinary skill in the art at the time the invention was made to add the reservoir of Gatteschi into the method of the references as combined to provide film continuously to the processing station.

Regarding claim 3, Gatteschi shows cutting off the trailing end of the first polymer film with a cutter, 15A, upstream of the film connecting position.

Regarding claim 4, the width of melt-adhesion line would be determined by routine optimization.

Regarding claims 5-6, Posey teaches that there is no tail of the trailing end of the first polymer after cutting and sealing (Fig. 8i).

Regarding claims 7-8, it would have been within the purview of one of ordinary skill in the art to determine the length of the trailing end of the first polymer film that should be cut off after considering factors such as the cost of the film per unit length and the amount of film regularly damaged by attachment to a reel.

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Regarding claims 10-12, the admitted prior art shows the polymer films to be PVA which are treated with a liquid prior to entering a tentering device wherein the films are expanded. In addition, Posey teaches treating the polymer films between the splicing location and the processing station (column 6, lines 63-66).

## Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ward, Ward et al., and Draghetti each show heat seal splicing devices for polymer films. Lincoln et al. shows splicing with attaching the trailing web end to the new web.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark A Osele whose telephone number is 571-272-1235. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on 571-272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MARK A. OSELE PRIMARY EXAMINER

March 14, 2005